Title: Senior Engineer, Mining

Job Overview:

As a Senior Engineer, Mining, your primary responsibility is to provide technical expertise and leadership in the planning, design, and implementation of mining projects and operations. You will collaborate with cross-functional teams to optimize mining processes, ensure compliance with safety and environmental regulations, and drive continuous improvement initiatives. This role requires strong knowledge of mining principles, experience in mine planning and operations, and the ability to lead and mentor a team of engineers.

Key Responsibilities:

1. Mine Planning and Design: Lead the development of mine plans and designs, considering factors such as ore reserves, geotechnical conditions, equipment selection, and environmental considerations. Optimize mining methods and sequencing to maximize ore recovery and minimize costs.

2. Mining Operations Oversight: Provide technical oversight and support for mining operations, ensuring compliance with safety, health, and environmental regulations. Monitor mining activities, identify potential issues, and implement corrective actions as necessary.

3. Resource Estimation and Modeling: Conduct resource estimation and modeling to determine the economic viability of mining projects. Evaluate geological data, drill results, and other relevant information to estimate mineral reserves and optimize mine design.

4. Equipment Selection and Optimization: Collaborate with equipment and maintenance teams to select and optimize mining equipment and machinery. Evaluate equipment performance, recommend improvements, and ensure effective utilization.

5. Project Management: Manage mining projects, including project planning, budgeting, scheduling, and resource allocation. Collaborate with cross-functional teams to define project scope, objectives, and deliverables.

6. Safety and Environmental Compliance: Ensure compliance with safety, health, and environmental regulations and best practices in all mining activities. Implement safety programs, conduct risk assessments, and foster a culture of safety and environmental responsibility.

7. Continuous Improvement: Identify opportunities for process and operational improvements to enhance mining efficiency, productivity, and cost-effectiveness. Drive continuous improvement initiatives and implement best practices.

8. Team Leadership and Mentoring: Lead and mentor a team of engineers, providing technical guidance, training, and support. Foster a collaborative and high-performing team environment.

9. Stakeholder Management: Collaborate with internal and external stakeholders, including regulatory authorities, community representatives, and contractors, to address concerns, ensure effective communication, and maintain positive relationships.

10. Reporting and Documentation: Prepare technical reports, presentations, and documentation related to mining projects and operations. Provide regular updates to management and stakeholders.

Qualifications:

- Bachelor's degree in Mining Engineering or a related field. A master's degree is preferred.

- Minimum of 5 years of experience in mining engineering, mine planning, and operations.

- Strong technical knowledge of mining principles, including mine design, planning, and operations.

- Experience in mine planning software and tools (e.g., Surpac, MineSight, Vulcan) and mining optimization techniques.

- Proficiency in geological modeling and resource estimation methods.

- Proven experience in managing mining projects, including project planning, budgeting, and resource management.

- Knowledge of safety, health, and environmental regulations and best practices in the mining industry.

- Strong analytical and problem-solving skills, with the ability to anticipate and resolve complex technical issues.

- Excellent leadership and team management skills, with the ability to motivate and mentor team members.

- Effective communication and interpersonal skills, with the ability to collaborate with various stakeholders and communicate technical concepts to non-technical audiences.

- Familiarity with relevant mining regulations, codes, and standards.

- Proficiency in using mining software and tools for design, planning, and analysis.

- Professional certifications in mining engineering (e.g., Professional Engineer) are a plus.

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